

# **B.V RAJU COLLEGE**

**VISHNUPUR, BHIMAVARAM.**

*DEPARTMENT OF LIFE SCIENCES*



**AZOTOBACTER**

**BIOFERTILIZER PRODUCTION**

## AZOTOBACTER- BIOFERTILIZER PRODUCTION

Department of Life science from B.V.Raju College initiated the production of Biofertilizer **AZOTOBACTER** in the month of March. Our final year students are involved in this biofertilizer production programme and two of our Department faculty members co-ordinated this.

Azotobacter is a free-living a symbiotic Nitrogen fixing bacterium present in the soil. It produces plant growth promoting substances like Indole acetic acid, Gibberellic acid and Vitamins to favour the plant growth. We will increase the crop yield by using Azotobacter as a biofertilizer in the fields like rice, wheat, millets, cotton and also vegetables.

We initiated the cultivation of Azotobacter in a small-scale manner in our laboratory. For this case, we have prepared Jensen's medium, which is a Nitrogen free Glucose medium in a conical flask and inoculated a small amount of garden soil into this medium. We have incubated the flask at 30<sup>0</sup>C for the cultivation of Azotobacter for a week. After one week we observed the growth of Azotobacter biofertilizer in the flask.

